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| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><br>(Only for new nonprovisional applications under 37 CFR 1.53(b)) | Attorney Docket No.    | TGZ-001ACP2                                                                                             |
|                                                                                                                              | First Inventor         | John R. Gilbert                                                                                         |
|                                                                                                                              | Title                  | MICROFLUIDIC SYSTEM INCLUDING A VIRTUAL WALL FLUID INTERFACE PORT FOR INTERFACING FLUIDS WITH THE, etc. |
|                                                                                                                              | Express Mail Label No. | EV 355 386 750 US                                                                                       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>APPLICATION ELEMENTS</b><br>See MPEP chapter 600 concerning utility patent application contents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>ADDRESS TO:</b><br>MS Patent Application<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, VA 22313-1450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br>(Submit an original, and a duplicate for fee processing)<br>2. <input checked="" type="checkbox"/> Applicant claims small entity status.<br>See 37 CFR 1.27.<br>3. <input checked="" type="checkbox"/> Specification [Total Pages: 56]<br>(preferred arrangement set forth below)<br>- Descriptive title of the invention<br>- Cross Reference to Related Applications<br>- Statement Regarding Fed sponsored R & D<br>- Reference to sequence listing, a table, or a computer program listing appendix<br>- Background of the Invention<br>- Brief Summary of the Invention<br>- Brief Description of the Drawings (if filed)<br>- Detailed Description<br>- Claim(s)<br>- Abstract of the Disclosure<br>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets: 19]<br>5. Oath or Declaration [Total Sheets: ]<br>a. <input type="checkbox"/> Newly executed (original or copy)<br>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br>(for continuation/divisional with Box 18 completed)<br>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).<br>6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)<br>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)<br>a. <input type="checkbox"/> Computer Readable Form (CRF)<br>b. Specification Sequence Listing on:<br>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper<br>c. <input type="checkbox"/> Statements verifying identity of above copies<br><b>ACCOMPANYING APPLICATIONS PARTS</b><br>9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))<br>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney<br>(when there is an assignee)<br>11. <input type="checkbox"/> English Translation Document (if applicable)<br>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations<br>13. <input type="checkbox"/> Preliminary Amendment<br>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br>(Should be specifically itemized)<br>15. <input type="checkbox"/> Certified Copy of Priority Document(s)<br>(if foreign priority is claimed)<br>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).<br>Applicant must attach form PTO/SB/35 or its equivalent.<br>17. <input type="checkbox"/> Other: |

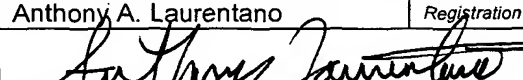
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 10/028852

Prior application information: Examiner Not Yet Assigned Art Unit: 1641

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

|                                                                       |                                                |                                                                     |                |
|-----------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|----------------|
| <b>19. CORRESPONDENCE ADDRESS</b>                                     |                                                |                                                                     |                |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label |                                                | 00959                                                               |                |
|                                                                       |                                                | or <input checked="" type="checkbox"/> Correspondence address below |                |
| Name                                                                  | LAHIVE & COCKFIELD, LLP<br>Elizabeth A. Hanley |                                                                     |                |
| Address                                                               | 28 State Street                                |                                                                     |                |
| City                                                                  | Boston                                         | State                                                               | MA             |
| Country                                                               | US                                             | Zip Code                                                            | 02109          |
| Telephone                                                             | (617) 227-7400                                 | Fax                                                                 | (617) 742-4214 |

|                   |                                                                                     |                                   |               |
|-------------------|-------------------------------------------------------------------------------------|-----------------------------------|---------------|
| Name (Print/Type) | Anthony A. Laurentano                                                               | Registration No. (Attorney/Agent) | 38,220        |
| Signature         |  | Date                              | June 25, 2003 |

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 355 386 750 US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: June 25, 2003

Signature:  (Anthony A. Laurentano)

PTO 21901 U.S. 10/60/287

06/25/03

17264 U.S. PTO  
06/25/03

PTO/SB/17 (05-03)

Approved for use through 04/30/2003. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">for FY 2003</h3> <p style="font-size: small; margin: 0;">Effective 01/01/2003. Patent fees are subject to annual revision.</p> |  | <b>Complete if Known</b> |             |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27                                                                                                         |  | Application Number       |             |
|                                                                                                                                                                                                   |  | Not Yet Assigned         |             |
|                                                                                                                                                                                                   |  | Filing Date              |             |
|                                                                                                                                                                                                   |  | Concurrently Herewith    |             |
|                                                                                                                                                                                                   |  | First Named Inventor     |             |
|                                                                                                                                                                                                   |  | John R. Gilbert          |             |
|                                                                                                                                                                                                   |  | Examiner Name            |             |
|                                                                                                                                                                                                   |  | Not Yet Assigned         |             |
|                                                                                                                                                                                                   |  | Art Unit                 |             |
|                                                                                                                                                                                                   |  | 1641                     |             |
| TOTAL AMOUNT OF PAYMENT                                                                                                                                                                           |  | (\$)                     | 375.00      |
|                                                                                                                                                                                                   |  | Attorney Docket No.      | TGZ-001ACP2 |

| <b>METHOD OF PAYMENT (check all that apply)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |              |                                                                  | <b>FEE CALCULATION (continued)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None<br><input checked="" type="checkbox"/> Deposit Account<br>Deposit Account Number: <span style="border: 1px solid black; padding: 2px 20px;">12-0080</span><br>Deposit Account Name: <span style="border: 1px solid black; padding: 2px 40px;">Lahive &amp; Cockfield, LLP</span><br>The Director is hereby authorized to: (check all that apply)<br><input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments<br><input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application<br><input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.                                                                                                            |          |              |                                                                  | <b>3. ADDITIONAL FEES</b><br><br><table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>410</td><td>2252</td><td>205</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>930</td><td>2253</td><td>465</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,450</td><td>2254</td><td>725</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>1,970</td><td>2255</td><td>985</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>320</td><td>2401</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>320</td><td>2402</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>280</td><td>2403</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,300</td><td>2453</td><td>650</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,300</td><td>2501</td><td>650</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>470</td><td>2502</td><td>235</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>630</td><td>2503</td><td>315</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>750</td><td>2809</td><td>375</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>750</td><td>2810</td><td>375</td><td>For each additional invention to be examined (37CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>750</td><td>2801</td><td>375</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> </tbody> </table> |          |              |  | Large Entity    |          | Small Entity |          | Fee Description | Fee Paid | Fee Code | Fee (\$) | Fee Code | Fee (\$) | 1051               | 130    | 2051 | 65  | Surcharge - late filing fee or oath |     | 1052              | 50 | 2052 | 25  | Surcharge - late provisional filing fee or cover sheet. |     | 1053             | 130 | 1053 | 130 | Non-English specification |     | 1812               | 2,520 | 1812 | 2,520 | For filing a request for <i>ex parte</i> reexamination |    | 1804                   | 920* | 1804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920* | Requesting publication of SIR prior to Examiner action |  | 1805 | 1,840* | 1805         | 1,840*         | Requesting publication of SIR after Examiner action |              | 1251 | 110     | 2251                                                             | 55   | Extension for reply within first month |   | 1252   | 410                                                              | 2252 | 205                | Extension for reply within second month |  | 1253                                                             | 930 | 2253         | 465 | Extension for reply within third month |  | 1254            | 1,450    | 2254     | 725      | Extension for reply within fourth month |      | 1255 | 1,970 | 2255 | 985                    | Extension for reply within fifth month |    | 1401 | 320 | 2401                              | 160  | Notice of Appeal |      | 1402 | 320                                   | 2402 | 160 | Filing a brief in support of an appeal |    | 1403                                               | 280  | 2403 | 140  | Request for oral hearing |                                                            | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding |  | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable |  | 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional |  | 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) |  | 1502 | 470 | 2502 | 235 | Design issue fee |  | 1503 | 630 | 2503 | 315 | Plant issue fee |  | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner |  | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) |  | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt |  | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) |  | 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR 1.129(a)) |  | 1810 | 750 | 2810 | 375 | For each additional invention to be examined (37CFR 1.129(b)) |  | 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) |  | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application |  |
| Large Entity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | Small Entity |                                                                  | Fee Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|    |      |     |                                                         |     |                  |     |      |     |                           |     |                    |       |      |       |                                                        |    |                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Fee Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fee (\$) | Fee Code     | Fee (\$)                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130      | 2051         | 65                                                               | Surcharge - late filing fee or oath                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 1052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50       | 2052         | 25                                                               | Surcharge - late provisional filing fee or cover sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 1053                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130      | 1053         | 130                                                              | Non-English specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 1812                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,520    | 1812         | 2,520                                                            | For filing a request for <i>ex parte</i> reexamination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920*     | 1804         | 920*                                                             | Requesting publication of SIR prior to Examiner action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,840*   | 1805         | 1,840*                                                           | Requesting publication of SIR after Examiner action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 1251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110      | 2251         | 55                                                               | Extension for reply within first month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 410      | 2252         | 205                                                              | Extension for reply within second month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 1253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 930      | 2253         | 465                                                              | Extension for reply within third month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1254                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,450    | 2254         | 725                                                              | Extension for reply within fourth month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 1255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,970    | 2255         | 985                                                              | Extension for reply within fifth month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320      | 2401         | 160                                                              | Notice of Appeal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 1402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320      | 2402         | 160                                                              | Filing a brief in support of an appeal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1403                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 280      | 2403         | 140                                                              | Request for oral hearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 1451                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,510    | 1451         | 1,510                                                            | Petition to institute a public use proceeding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 1452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110      | 2452         | 55                                                               | Petition to revive - unavoidable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 1453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,300    | 2453         | 650                                                              | Petition to revive - unintentional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 1501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,300    | 2501         | 650                                                              | Utility issue fee (or reissue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 1502                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 470      | 2502         | 235                                                              | Design issue fee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 1503                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 630      | 2503         | 315                                                              | Plant issue fee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130      | 1460         | 130                                                              | Petitions to the Commissioner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 1807                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50       | 1807         | 50                                                               | Processing fee under 37 CFR 1.17(q)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 1806                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180      | 1806         | 180                                                              | Submission of Information Disclosure Stmt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 8021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40       | 8021         | 40                                                               | Recording each patent assignment per property (times number of properties)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 1809                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 750      | 2809         | 375                                                              | Filing a submission after final rejection (37 CFR 1.129(a))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 1810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 750      | 2810         | 375                                                              | For each additional invention to be examined (37CFR 1.129(b))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 1801                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 750      | 2801         | 375                                                              | Request for Continued Examination (RCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 1802                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 900      | 1802         | 900                                                              | Request for expedited examination of a design application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <b>1. BASIC FILING FEE</b><br><table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1001</td><td>750</td><td>2001</td><td>375</td><td>Utility filing fee</td><td>375.00</td></tr> <tr><td>1002</td><td>330</td><td>2002</td><td>165</td><td>Design filing fee</td><td></td></tr> <tr><td>1003</td><td>520</td><td>2003</td><td>260</td><td>Plant filing fee</td><td></td></tr> <tr><td>1004</td><td>750</td><td>2004</td><td>375</td><td>Reissue filing fee</td><td></td></tr> <tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table> <p style="text-align: right;"><b>SUBTOTAL (1)</b> (\$) <span style="border: 1px solid black; padding: 0 20px;">375.00</span></p> |          |              |                                                                  | Large Entity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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1003 | 520 | 2003                                                    | 260 | Plant filing fee |     | 1004 | 750 | 2004                      | 375 | Reissue filing fee |       | 1005 | 160   | 2005                                                   | 80 | Provisional filing fee |      | <b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b><br><table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>20</td> <td>-20** =</td> <td><span style="border: 1px solid black; padding: 0 10px;">0</span></td> <td>0.00</td> </tr> <tr> <td>Independent Claims</td> <td>3</td> <td>-3** =</td> <td><span style="border: 1px solid black; padding: 0 10px;">0</span></td> <td>0.00</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td><span style="border: 1px solid black; padding: 0 10px;">0</span></td> <td></td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>1201</td><td>84</td><td>2201</td><td>42</td><td>Independent claims in excess of 3</td></tr> <tr><td>1203</td><td>280</td><td>2203</td><td>140</td><td>Multiple dependent claim, if not paid</td></tr> <tr><td>1204</td><td>84</td><td>2204</td><td>42</td><td>** Reissue independent claims over original patent</td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table> <p style="text-align: right;"><b>SUBTOTAL (2)</b> (\$) <span style="border: 1px solid black; padding: 0 20px;">0.00</span></p> <p style="font-size: x-small;">**or number previously paid, if greater; For Reissues, see above</p> |      |                                                        |  |      |        | Extra Claims | Fee from below | Fee Paid                                            | Total Claims | 20   | -20** = | <span style="border: 1px solid black; padding: 0 10px;">0</span> | 0.00 | Independent Claims                     | 3 | -3** = | <span style="border: 1px solid black; padding: 0 10px;">0</span> | 0.00 | Multiple Dependent |                                         |  | <span style="border: 1px solid black; padding: 0 10px;">0</span> |     | Large Entity |     | Small Entity                           |  | Fee Description | Fee Code | Fee (\$) | Fee Code | Fee (\$)                                | 1202 | 18   | 2202  | 9    | Claims in excess of 20 | 1201                                   | 84 | 2201 | 42  | Independent claims in excess of 3 | 1203 | 280              | 2203 | 140  | Multiple dependent claim, if not paid | 1204 | 84  | 2204                                   | 42 | ** Reissue independent claims over original patent | 1205 | 18   | 2205 | 9                        | ** Reissue claims in excess of 20 and over original patent |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |  |      |     |      |     |                                                             |  |      |     |      |     |                                                               |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
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| 1002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 330      | 2002         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                               |    |                                                    |      |      |      |                          |                                                            |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |  |      |     |      |     |                                                             |  |      |     |      |     |                                                               |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 280      | 2203         | 140                                                              | Multiple dependent claim, if not paid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|    |      |     |                                                         |     |                  |     |      |     |                           |     |                    |       |      |       |                                                        |    |                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                                        |  |      |        |              |                |                                                     |              |      |         |                                                                  |      |                                        |   |        |                                                                  |      |                    |                                         |  |                                                                  |     |              |     |                                        |  |                 |          |          |          |                                         |      |      |       |      |                        |                                        |    |      |     |                                   |      |                  |      |      |                                       |      |     |                                        |    |                                                    |      |      |      |                          |                                                            |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |  |      |     |      |     |                                                             |  |      |     |      |     |                                                               |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 84       | 2204         | 42                                                               | ** Reissue independent claims over original patent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|    |      |     |                                                         |     |                  |     |      |     |                           |     |                    |       |      |       |                                                        |    |                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                               |    |                                                    |      |      |      |                          |                                                            |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |  |      |     |      |     |                                                             |  |      |     |      |     |                                                               |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18       | 2205         | 9                                                                | ** Reissue claims in excess of 20 and over original patent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|    |      |     |                                                         |     |                  |     |      |     |                           |     |                    |       |      |       |                                                        |    |                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                               |    |                                                    |      |      |      |                          |                                                            |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |  |      |     |      |     |                                                             |  |      |     |      |     |                                                               |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| <b>Other fee (specify)</b> _____<br>*Reduced by Basic Filing Fee Paid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |              |                                                                  | <b>SUBTOTAL (3)</b> (\$) <span style="border: 1px solid black; padding: 0 20px;">0.00</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|    |      |     |                                                         |     |                  |     |      |     |                           |     |                    |       |      |       |                                                        |    |                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                               |    |                                                    |      |      |      |                          |                                                            |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |  |      |     |      |     |                                                             |  |      |     |      |     |                                                               |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |

|                     |                       |                                   |                |
|---------------------|-----------------------|-----------------------------------|----------------|
| <b>SUBMITTED BY</b> |                       | <b>Complete (if applicable)</b>   |                |
| Name (Print/Type)   | Anthony A. Laurentano | Registration No. (Attorney/Agent) | 38,220         |
| Signature           |                       | Telephone                         | (617) 227-7400 |
|                     |                       | Date                              | June 25, 2003  |

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| I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 355 386 750 US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.<br><br>Dated: June 25, 2003      Signature:  (Anthony A. Laurentano) |  |
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